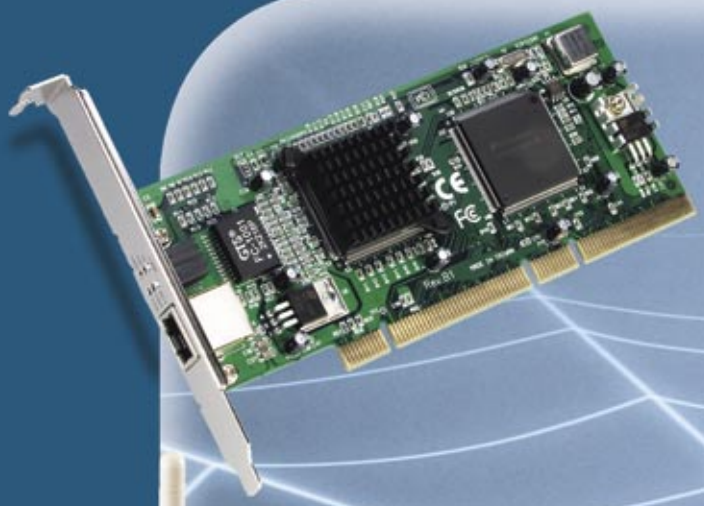
NETWORKING PRODUCTS



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Designed in Switzerland

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With ROLINE products always on the safe side!

Because it is difficult to retain the overview in the computer components market, we are going to offer a reliable orienting point with our ROLINE product assortment for high-quality products with an excellent price/performance ratio.
The 10 years function warranty for all ROLINE products proves the fact that we take our achievement promises seriously. The failures rates are, shown by our recordings, clearly below comparable products.
The production of the ROLINE products take place according to defined specifications at authorized manufacturer enterprises under strict quality control.
The ROLINE product assortment increased in the last years continuously. It reaches from Gigabit Switches over Wireless LAN products up to passive connection components. Also with UPS [17-19] and KVM Switches [14-15] you can rely on ROLINE technology. Compare price and achievement, you will be surprised!

Our achievements

Products
ROLINE networking products promise exceptional quality at affordable prices. Thousands of networks across Europe rely on ROLINE. International direct purchase leads to an unique price/performance ratio.

Warranty
All ROLINE network products have 10 years function warranty (excluded wearing parts 2 years).

Services
Exemplary service and guarantee conditions, telephone support, free advanced replacement, pre- and aftersales support exceptional service and support for all ROLINE Distributors.

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Packing
Professionally packed in boxes with detailed product information in five european languages

Network Cards

RA-100TX Fast Ethernet Network cards, Realtek Chipset

Once Installed in the PCI slot of your PC, this network card transfers data at a speed of 10 or 100 Mbit/s in Half or Full duplex mode. The RA-100TX makes it possible to access databanks , forward information and emails as well as the shared use of Printers, Scanners and other Devices.

RA-150TX Fast Ethernet Net work cards, Intel Chipset

The RA-150TX is a high performance network card based on a Intel Chip set.

- 10/100 Mbit/s PCI 2.2 Card
- Suports Half/Full duplex mode with auto negotiation

RA-1000T Gigabit Ethernet Network card

This high performance network card minimizes bottle necks arising from high network traffic. The data is transferred at up to 1000Mbit/s speeds, particularly useful in applications requiring high bandwidth (eg. video streaming)

RPC116 Fast Ethernet PC Card PCMCIA 16Bit

With this PC card you can connect quickly, simply and flexible a laptop with a network. The card is designed for a 16 Bit PCMCIA Slot and is suitable for first generation laptops.

- You'll find that the speed is automatically negotiated between 10 or 100 Mbit/s as well as in full or half duplex mode.
- RJ45 Port on the card for a direct cable connection.

RPC1132 Fast Ethernet PC Card Cardbus 32Bit

This PC Card is suitable for second generation laptops which have a 32 Bit Cardbus Slot.

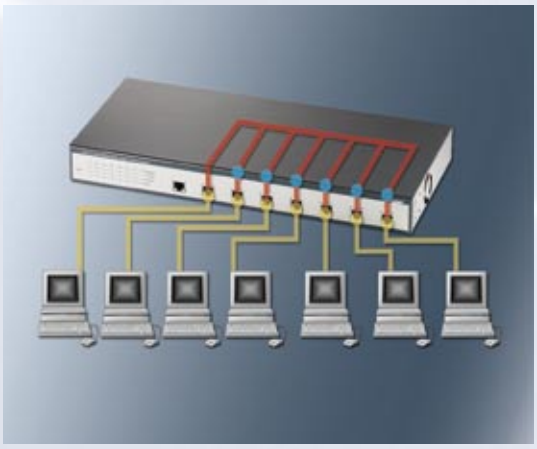
- Auto-sensing between 10 or 100 Mbit/s with full and half duplex support.
- Direct cable insertion on the card to avoid wear and tear of connection cable.
- Minimal energy requirements and easy Installation.

Features:

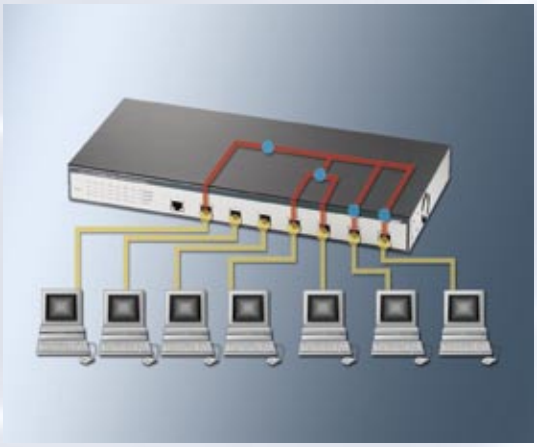
	RA-100TX	RA-150TX	RA-1000T	RPC-116	RPC-132
10/100Mbit/s	x	x	x	x	x
10/100/1000Mbit/s			x		
Auto-sensing	x	x	x	x	x
Half-/full Duplex	x	x	x	x	x
32 Bit PCI 2.2	x	x	x		
64 Bit PCI Server			x		
16 Bit-PCMCIA-Card				x	
32 Bit-Card Bus-Adapter					x
Easy Network configuration	x	x	x	x	x
Operating System:					
Windows 3.1 / NT 4.0 / 95	x	x		x	x
Windows 98 / 2000 /ME / XP	x	x	x	x	x
Netware 3.x / 4.x	x	x		x	x
Netware 5.x	x	x	x	x	x
Linux	x	x	x	x	x
Item No.:	**21.11.3037-50**	**21.11.3031-5**	**21.11.3041-5**	**21.11.3094-5**	**21.11.3095-5**

State of the Art

The network market, as all other markets in the economy, is in constant motion. The overview about the latest products and techniques can be lost very rapidly. But what is “state of the art“? How can someone build up a network with a long-term life span? How has a network to look like to be long-lasting and even expandable? We have the right products and the right solutions for you.



In a company network Gigabit technology should be used for the backbone area. The connection to the proven 10/100 networks can be made with the right switch.
For the transmission over longer distances - or through heavy electromagnetic loaded areas - we recommend the use of fiber optic (FO) technology. The FO cables are, different than the copper cables, less sensitive to electromagnetical interference and attenuate the transferred signal substantially less.
In the SOHO market Wireless LAN (W-LAN) will in future gain more and more market share. Planning W-LANs one has to consider that there are different data transmission rates and hardware requirements to get the maximum data rate.
Common technics in this area are the transmission rates 11 and/or 22 Mbit/s (according to standards IEEE802.11b and IEEE802.11b+). Starting from summer 2003 new devices are on the market with a transmission rate of up to 54 Mbit/s (according to IEEE802.11g)



10/100 Switches 19”-Rackmount, 16 / 24 Ports

ROLINE 19“ rackmount switches are efficient and reliable in any critical, busy network. All 16 or 24 ports support automatic recognition of 10 or 100MBit/s in half or full duplex mode. The switches are ideally suited to segmenting networks into smaller sub-networks, and therefore achieving an optimal data operational capacity. Rackmount installation ears included.

10 / 100 Switches Desktop 5 / 8 / 16 Ports

ROLINE desktop switches are reliable essential components for any small or medium sized network. Excellent price to performance ratio! All switch ports support automatically MDI and MDI-X, eliminating the need for crossover cables and uplink ports.

Features:

	RS-116R	RS-124R	RS-105D	RS108D	RS-116D
Number of Ports	16 Ports	24 Ports	5 Ports	8 Ports	16 Ports
10/100Mbit/s	x	x	x	x	x
Half-/full duplex	x	x	x	x	x
Auto-negotiation	x	x	x	x	x
Auto MDI/MDI-X	x	x	x	x	x
Store and Forward Technology	x	x	x	x	x
Desktop casing			x	x	x
Rackmount casing	x	x			
Dimensions (WxDxH)	440x140x44mm	440x140x44mm	116x70x25mm	171x98x29mm	184x124x44mm
Power	240VAC/0.4A	240VAC/0.4A	7.5VDC/1A	7.5VDC/1A	7.5VDC/1A
Power supply	internal	internal	external	external	external
Item No.:	**21.14.3118-3**	**21.14.3127-3**	**21.14.3104-5**	**21.14.3107-5**	**21.14.3115-3**

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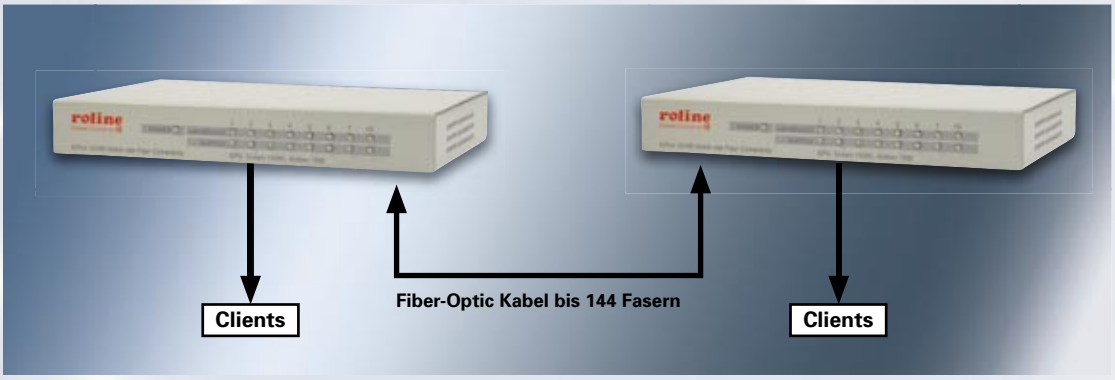
Fast Ethernet Switches with Fiber-Optic Uplink

10/100-Switches with Fiber-Optic Connection, 5 / 8 Ports

These switches are ideal for the conncetion of working groups to the enterprise network. The switch has both RJ45 10/100 Mbit/s connections for workstations and a single 100 MBit/s fiber port for linking network groups over a greater cable distance.



RS-108DF

RS-105DF

- 4 / 7 shielded RJ45 ports, one F.O. multimode port with SC connector
- 4 / 7 10/100 Mbit/s ports, each with Auto-Negotiation
- 1 100Base-FX Port for SC connector
- Store-and-Forward Switching in wire speed (filtering and forwarding)
- Supports Full-/Half-Duplex-Modus on each port
- IEEE 802.3x flow control
- Compact metal desktop case

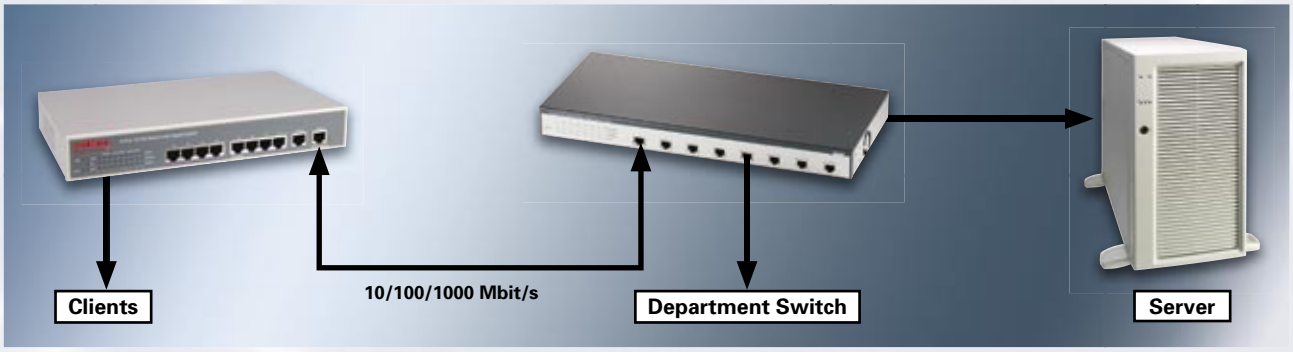
Features:

	RS-105DF	RS-108DF
10/100Mbit/s Ports (RJ-45)	4	7
100Base-FX Port (SC)	1	1
Full-/Half-Duplex	x	x
Auto-Negotiation	x	x
Auto MDI/MDI-X	x	x
Store and Forward Switching	x	x
MAC-Adresses	1K	8K
Dimensions (WxDxH)	144x100x26mm	171x98x29mm
Power	230VAC/150mA	230VAC/150mA
Power Supply	external	external
Item No.:	**21.14.3135-5**	**21.14.3138-5**

Gigabit Ethernet Switches

Gigabit Ethernet Switches for High-speed Connections

For Workgroups with a need for high data throughput, a switch from the ROLINE Gigabit range is ideal. The Gigabit 1000Base-T eliminates all broadband problems. The Gigabit port has an Auto MDI-X-capability and recognises automatically what kind of cable is connected.



RS-1008D 8 Port 10/100 Switch with Gigabit Uplink Port

The ROLINE RS-1008D is equipped with one Gigabit 1000Base-T for server or backbone switch connection, and 8x 10/100Base-TX ports. It supports half and full duplex mode on all ports, automatic MDI/MDI-X recognition on the Gigabit port and one additional 10/100 Uplink port. The extensive LED display supports rapid status and error diagnostics.

Gigabit Ethernet Switches, 5 / 8 Ports

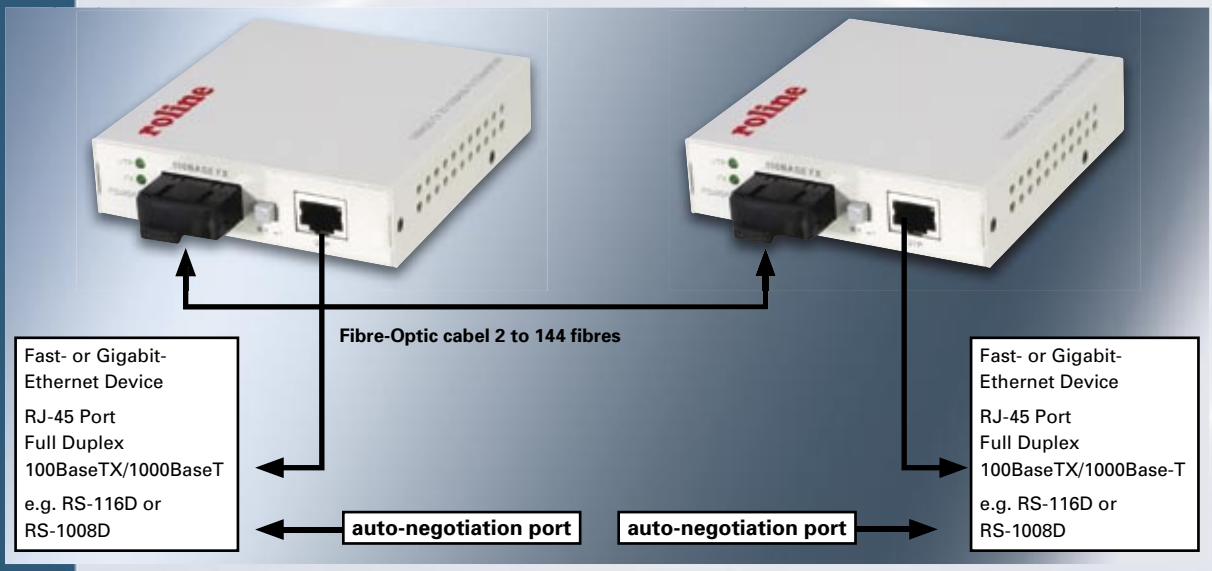
These high performance gigabit switches are designed especially for use in small and medium sized companies. Your business will benefit from a network with higher bandwidth, all at a cost effective price. The switches have 5 or 8 Gigabit ports for high-speed connection to servers and workgroup switches, which will immediately improve the performance of the whole IT infrastructure.

Features:

	RS-1008D	RS-5000D	RS-8000D
Number of 10/100 Ports	8		
Number of Gigabit Ports	1	5	8
Half-/full-Duplex	x	x	x
Auto-negotiation	x	x	x
Auto MDI/MDI-X	x	x	x
Store and Forward Technology	x	x	x
Desktop Casing	x	x	
Rackmount Casing			x
Dimension (WxDxH)	280x180x44mm	280x200x44mm	440x200x44mm
Power	240VAC/800mA	240VAC/800mA	240VAC/800mA
Power Supply	external	external	internal
Item No.:	**21.14.3408-3**	**21.14.3504-3**	**21.14.3508-3**

ROLINE Media Converter

A media converter links two different cable types together. The most common use of a media converter is to extend a network over a long distance via fibre optics, connecting two network groups together which are separated by a distance greater than 100m (max. distance of Cat.5e cabling).



RC-1000FX/SC Gigabit Ethernet Converter

This converter will turn a Gibabit Ethernet TP-Port (1000Base-T) into a fiber optic (1000Base-SX) port.
Connector TP Port: STP RJ-45
Connector SX Port: SC-Duplex

Fast Ethernet Media Converter

This Converter turns a Fast Ethernet TP port (100Base-T) into a fibre optic (100Base-FX).
Connector TP Port: RJ 45
Connector FX Port: available with SC or ST Connector

Features:

	RC-1000SX/SC	RC-100FX/ST	RC-100FX/SC
100Mbit/s		x	x
1000Mbit/s	x		
Half-/full-duplex	x	x	x
ST Fiber Connector		x	
SC Fiber Connector	x		x
Manual MDI/MDI-X switch	x	x	x
Easy network configuration	x	x	x
Maximum cable length Multimode 50/125 µm	500 Meter	2000 Meter	2000 Meter
Maximum cable length Multimode 62,5/125 µm	200 Meter	2000 Meter	2000 Meter
Desktop model	x	x	x
Dimension (WxDxH)	96x101x25mm	96x101x25mm	96x101x25mm
Power	12VDC/0.8A	12VDC/0.8A	12VDC/0.8A
Power supply	external	external	external
Item No.:	**21.13.1064-5**	**21.13.1062-5**	**21.13.1063-5**

xDSL / Broadband router

RRB-104 Broadband router with 4-port Switch

The ROLINE / xDSL broadband router ensures quick and easy high-speed internet access for all LAN users. Connects directly to a PPPoE or PPTP cable modem (usually supplied by your ISP). A built in 4 port switch makes this the ideal SOHO solution.

- NAT Firewall
- IP Packet Filter
- Supports PPPoE, PPTP
- LAN 4 x 10/100 Mbit/s switch
- WAN 1 Port 10 BaseT RJ-45
- Web based management
- Extensive LED display
- Without modem function

RRB-104P Broadband router with Switch and Print server

Broadband router for DSL- or cable modem with integrated 4 Port Switch with 1x parallel printer port

- NAT Firewall
- IP Packet Filter
- Supports PPPoE, PPTP
- LAN 4 x 10/100 Mbit/s Switch
- WAN 1 Port 10 BaseT RJ-45
- Web based Management
- Extensive LED display
- Without modem function

Features:

	RRB-104	RRB-104P
WAN 10BaseT	x	x
LAN Ethernet Ports	4 Ports	4 Ports
10/100 Mbit/s	x	x
Supports PPTP	x	x
Works as PPPoE Client for the communication by DSL	x	x
Web based Management	x	x
Built in Print Server 1x parallel port (DB25 Female)		x
Dimension (WxHxD) 215 x 149 x 34 mm	x	x
Power	7.5VDC/1A	5VDC/2.4A
Power supply	external	external
Item No.:	**21.14.2104-5**	**21.14.2114-5**

ROLINE Wireless LAN Products

Nowadays wireless networks are established and in general use.
For those who need higher transfer rates than 11Mbit/s is IEEE 802.11b+ with a data transmission rate of 22Mbit/s the right choose. The next step is the IEEE 802.11g standard with a data transmission rate of 54 Mbit/s.
Independently witch requirements exist for your network, ROLINE always offers you the suitable product.
The new ROLINE Wireless LAN permits both, the wireless connection between PCs and Notebooks and the connection to existing 10/100 LANs through e.g. an Access Point and/or an Ethernet Bridge.

- Radio technology compliant to IEEE 802.11b with a data transmission rate up to 11 Mbit/s
- Radio technology compliant to IEEE 802.11b+ with a data transmission rate up to 22 Mbit/s
- Radio technology compliant to IEEE 802.11g with a data transmission rate up to 54 Mbit/s
- The ideal data rate (54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbit/s) is specified for peer to peer communication as a function of the signal strength to achieve an optimal availability and reliability of the connections.
- WEP compliant data encryption with key lengths up to 256 bits
- Driver support for Windows 98/ME/NT/2000/XP
- PC and PCMCIA adapter support peer to peer connections between PCs and Notebooks without Access Point

Product Name	11 Mbit/s (IEEE 802.11b)	22 Mbit/s (IEEE 802.11b+)	54 Mbit/s (IEEE 802.11g)
W-LAN USB Adapter	21.18.1666-E (RWUSB-11)		
W-LAN PCI Adapter		21.18.1650-E (RWA-22)	21.18.1685-E (RWA-54)
W-LAN PCMCIA Adapter		21.18.1660-E (RWPC-22)	21.18.1686-E (RWPC-54)
W-LAN Ethernet Bridge	21.18.1667-E (RWB-11)		
W-LAN Access Point		21.18.1665-E (RWAP-22)	21.18.1680-E (RWAP-54)
W-LAN Broadband - Router			21.18.1682-E (RWRB-54)

Item No.:	Name	Encryption	Transmit Power	Connectors
21.18.1666-E	RWUSB-11	64 / 128 Bit WEP-Encryption	19 dBm	USB A Mini USB
21.18.1667-E	RWB-11	64 / 128 Bit WEP-Encryption	15 dBm	1 x RJ45 10/100 Mbits/s
21.18.1650-E	RWA-22	64 / 128 / 256 Bit WEP-Encryption	18 dBm	PCI V 2.2
21.18.1660-E	RWPC-22	64 / 128 / 256 Bit WEP-Encryption	15 dBm	32 Bit Card-Bus Typ II
21.18.1665-E	RWAP-22	64 / 128 / 256 Bit WEP-Encryption	16 - 18 dBm	1 x RJ45 10/100 Mbits/s
21.18.1686-E	RWA-54	64 / 128 Bit WEP-Encryption	15 dBm	32 Bit Card-Bus Typ II
21.18.1685-E	RWPC-54	64 / 128 Bit WEP-Encryption	15 dBm	32 Bit Card-Bus Typ II+ PCI/PCMIA Adapter
21.18.1680-E	RWAP-54	64 / 128 Bit WEP-Encryption	15 dBm	1 x RJ45 10/100 Mbits/s
21.18.1682-E	RWRB-54	64 / 128 / 152 Bit WEP-Encryption with TKIP, AES, LEAP and WPA	15 dBm	1 x RJ45 10/100 Mbits/s (for WAN) and 4 x RJ45 10/100 Mbits/s (for LAN)

Actual products overview available at: www.roline-net.com

W-LAN ANTENNAS

Item No.:	Name	Vertical	Horizontal	Polarisation	Gain	Connector	Dimensions (WxDxH)	Weight	Application
21.18.1670-E	RWANT-2408 G.P.	60°	N/A	vertical	8 dBi	N-Socket	390 mm (H)	370g	Outside
21.18.1671-E	RWANT-2412 Flat Panel	70°	27°	vertical	12 dBi	N-Socket	235 x 95 x 30	495 g	Inside-/ Outside
21.18.1672-E	RWANT-2418 Flat Panel	75°	45°	vertical	18 dBi	N-Socket	263 x 263 x 30	900 g	Outside
21.18.1673-E	RWANT-2420 Yagi Vertical	13°	24°	vertical	20 dBi	N-Socket	1000 x 50 x 45	1500 g	Outside
21.18.1674-E	RWANT-2421 Yagi Linear	13°	13°	linear	21 dBi	N-Socket	diameter 610 mm 150 mm (D)	2500 g	Outside

W-LAN ANTENNAS Accessories

Item No.:	Name	Absorption	Length	Connector
21.18.1546-E	RWCAB-3.0M aerial cable	- 1,5 dBi	3 Meter	N-Plug
21.18.1547-E	RWCAB-6.0M aerial cable	- 3 dBi	6 Meter	N-Plug

RWIC-11 Wireless Internet Camera (21.18.1960-E)

- Simple to use - just plug and view the image from the Internet Camera with a valid IP address
- Supports web configuration with password protection
- Allows remote access from aweb browser for a live image view
- Supports TCP/IP networking, SMTP e-mail, HTTP and other Internet related protocols
- Utilized in a mixed operating system environment such as Windows and MAC
- Powerful IP View application software for image capture and video recording
- Supports both ActiveX control for IE and Java applet for IE and Netscape Navigator
- Connection to external devices for alarm based events when trigger is activated
- Broad range of applications for monitoring homes, offices, banks, hospitals and a variety of industrial and public monitoring
- Implemented for intruder detection with still image capture and e-mail notice

Video specification	
Resolution	640 x 480 pixels
Sensor	Color CMOS sensor
Gain Control	Automatic
Exposure	Automatic
White Balance	Automatic
Signal/Noise Ratio	57dB
Focal Length	6.0 mm
Aperture	F=1.8
Focus Extent	20 cm - 8
Lens mounting	Fixed board lens, CD-mount type

Image (Video Setting)	
Image Compression	JPEG
Frame rate	30fps@QSIF, 20fps@SIF, 10fps@VGA
Compression Rate selection	Auto
Frame rate setting	1, 5, 7, 15, 20, auto
Video resolution	160x120, 320x240, 640x480
Brightness control	Yes
Contrast control	Yes
Saturation	Yes

System Hardware	
LAN Connector	One RJ-45 port to connect to 10/100Mbps Ethernet, autosensed
Wireless LAN	Built-in 802.11b Wireless LAN module (Wi-Fi compliant)
Generic I/O Port	Input Port x 2 & Output Port x 2
LED Indicator	Power LED LAN/WLAN Activity LED
Power Supply	DC 5V, switching type
Power Consumption	6.5 Watt (1300mA x 5V)
Slide Switch	LAN/LAN&WLAN/WLAN
Antenna Connector	2 connectors

Communication Support	
Communication	10/100 TX Ethernet only, 10/100TX Ethernet and 802.11b Wireless LAN, 802.11b Wireless LAN only
Encryption	64 bit, 128 bit or OFF
Communication protocol	HTTP, FTP, TCP/IP, UDP, ARP, ICMP, BOOTP, RARP, DHCP, PPPoE

Current new WLAN Products at: www.roline-net.com

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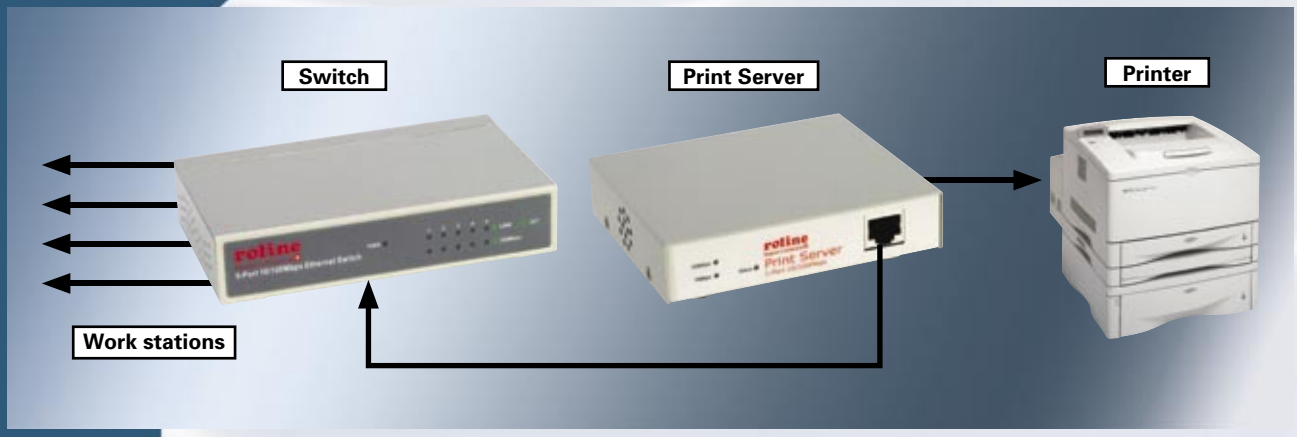
Print Server



ROLINE print servers are efficient and cost effective, providing printer access to all network users because of the TCP/IP and IPX support. The print servers are ideal for applications in Microsoft, Novell and Unix LAN surroundings.
Within Windows, a web based management facility simplifies the maintenance and configuration of the print server. It is not necessary to know IP addresses of the users, since the browser automatically finds the print server. With Novell NetWare the print server automatically configures the installation and generates the corresponding print queues.

Features:

	RP-101P	RP-101D	RP-103D
Number of parallel ports	1	1	3
10/100Base-T	x	x	x
Auto-negotiation	x	x	x
Supports LPR	x	x	x
Supports DHCP	x	x	x
Pocket Case	x		
Desktop Case		x	x
Dimension (WxDxH)	57x110x27mm	95x110x27mm	120x220x32mm
Power	6VDC/0.5A	6VDC/0.5A	12VDC/1A
Power supply	external	external	external
Item No.:	**25.15.6317-20**	**25.15.6311-20**	**25.15.6324-10**

Structured Cat. 6 wiring

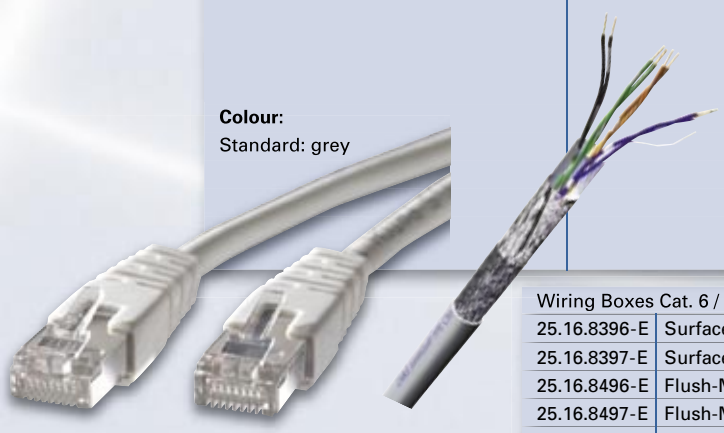
Speed and reliability are at the forefront of ROLINE Cat. 6 components. Roline offers a truly performance tuned end-to-end solution with a guaranteed 250MHz, ideal for today's gigabit network and beyond.

Cat. 6 is the latest standard in a succession of RJ45/copper based network cabling and connectivity, following the huge success of Cat. 5 and Cat. 5e. A cabling installation or "Permanent Link" normally comprise of a patch panel and wall plates connected by solid core network cabling. Additionally, patch cables are used to connect the PCs and switches; installations including this link are called a "Channel". Cat. 5e installations are only tested at the permanent link stage where as with Cat. 6 it is necessary to test all components in the Channel, for reliable performance.

It is no longer sufficient (as with Cat. 5e / Class D) to combine singular components which fulfil the standard for themselves. In fact it is necessary to test the products together in the Permanent and in the Channel Link.
For a high performance and reliable network, the ROLINE Cat. 6 range (or Class E, ISO/IEC 11801:2002 – for Europe) work in perfect synergy between patch panel, cabling, wall plates and patch leads, exceeding Cat. 6 performance requirement in a Channel Link.

We recommend you use the following components for a structured wiring:

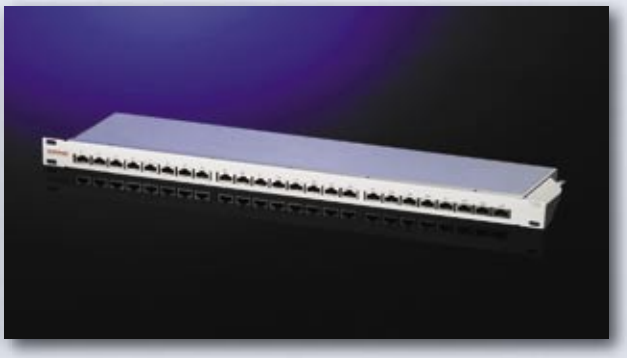
S/FTP Cat. 6 / Class E Patch-Cable	S/FTP Cat. 6 / Class E Solid Wire	Wall Outlet Boxes Cat. 6 / Class E	19" Patchpanel Cat. 6 / C
Design: – 8 wires, stranded copper wire, AWG 26 – pairs shielded with aluminium foil, complete – shielding in tinned copper braid **Pin assignment:** 1:1 according to EIA/TIA568A, 8 wires **Colour:** Standard: grey	**Design:** – 8 Wires, solid copper wire, AWG 23 – pairs shielded with aluminium foil, complete – shielding in tinned copper braid **Colour:** Standard: grey	The ROLINE Cat. 6 / Class E Wall Outlet Boxes fulfill the Cat. 6 / Class E Permanent Link Standard and are ideal for Gigabit Ethernet Networks. Fully screened box in a metal housing: provides security against irradiation. Cable assembly takes place using LSA.plus piercing terminals with colour coding on the top in accordance with EIA / TIA 568 rung nach EIA / TIA 568 **Colour:** pearl-white, alpine-white	The ROLINE Cat. 6 / Cla 19"-Patchpanel fulfills t Cat. 6 / Class E Perman Link Standard and are i for Gigabit Ethernet Networks. Cable assembly takes p using LSA.plus piercing terminals with colour c on the top in accordanc with EIA / TIA 568 **Colour:** Grey RAL 7035



Wiring Boxes Cat. 6 / Class E		Patchpanel Cat. 6 / Class E
25.16.8396-E	Surface-Mounting Box, Double, ivory	26.11.0350 19"-Patchpanel 1 U, 24 Ports, grey
25.16.8397-E	Surface-Mounting Box, Double, white	
25.16.8496-E	Flush-Mounting Box, Double, ivory	
25.16.8497-E	Flush-Mounting Box, Double, white	
25.16.8498-E	Masking frame for Flush-Mounting Box, ivory	
25.16.8499-E	Masking frame for Flush-Mounting Box, white	

S/FTP Cat. 6 / Class E Patch-Cable	
S/FTP Length	Cat. 6 / Class E Grey
0.5 m	21.15.0800-100
1.0 m	21.15.0801-100
2.0 m	21.15.0802-100
3.0 m	21.15.0803-50
5.0 m	21.15.0805-50
7.0 m	21.15.0807-50
10.0 m	21.15.0810-40
15.0 m	21.15.0815-30
20.0 m	21.15.0820-20

S/FTP Cat. 6 / Class E Solid Wire	
S/FTP	Cat. 6 / Class E
300 m	21.15.0889-1 solid wire



CS-12 KVM-Switch 1User – 2 PCs (PS/2) Pocket

This compact KVM (Keyboard / Video / Mouse) switch is ideal if you have two computers (PCs or laptops) but only space for one monitor, keyboard and mouse. Simply tap the control key twice for seamless switching or via a manual push button, or automatically in a scan run. No software needed. Self powered.

Included in delivery:

KVM switch, instruction manual, KVM cable sets PS/2 (1m)

CS-14 KVM-Switch 1 User – 4 PCs (PS/2) Pocket

This compact KVM (Keyboard / Video / Mouse) switch is ideal if you have up to 4 computers (PCs or laptops) but only space for one monitor, keyboard and mouse. Seamless switching with hotkeys or via a manual push button, or automatically in a scan run. No software needed. Self powered.

Included in delivery:

KVM-Switch, instruction manual, KVM cable sets PS/2 (2x 1.2m, 2x 1.8m)

CS-124A / CS-128A KWM-Switch 1 User – 4/8 PCs (PS/2) SlimLine

Up to 4 / 8 computers can be operated from one workstation. Ideally suited to control several fileservers or to simultaneously test several PCs. Switching is easy with hotkeys, automatically in a scan run (Intervals adjustable: 3, 10, 20, 40sec), or manually via push button. The LED display shows the channel allocation.

Included in delivery:

Switch, power supply (9VDC/600mA), instruction manual

Technical Information:

	CS-12	CS-14	CS-124A	CS-128A
Monitor VGA connector	1x HD 15pin Female	1x HD 15pin-Female	1x HD 15pin Female	1x HD 15pin Female
Keyboard-connector	1x Mini DIN 6pin Female	1x Mini DIN 6pin Female	1x Mini DIN 6pin Female	1x Mini DIN 6pin Female
Mouse-connector	1x Mini DIN 6pin Female	1x Mini DIN 6pin Female	1x Mini DIN 6pin Female	1x Mini DIN 6pin Female
PC VGA-connector	2x HD 15pin Male	4x HD 15pin Male	4x HD 15pin Male	
PC keyboard-connector	2x Mini DIN 6pin Female	4x Mini DIN 6pin Female	5x 6pin Mini DIN Female	
PC Mouse-connector	2x Mini DIN 6pin Female	4x Mini DIN 6pin Female	5x 6pin Mini DIN Female	
PC Combi-connector				8x DB pin Female*
Resolution max.	1920x1440	1920x1440	1920x1440	1920x1440
Casing	Plastic	Plastic	Metal / Plastic	Metal / Plastic
Dimensions (WxDxH)	99x86x28mm	170x87x28mm	224x52x132mm	366x45x250mm
Power supply	-	-	-	9VDC / 600mA
Item No.:	**14.01.3293-5**	**14.01.3294-5**	**14.01.3263-5**	**14.01.3268-5**

* Please find special connectors in the table on page 15

CS-1004 / CS-1008 / CS-1016
KVM-Switch 1 User–4 / 8 / 16 PCs, 19“, Audio

The connection boxes are suitable for a transmission rate of 100MBit/s and are fitted with one or two sockets
Fully screened box in a metal housing; provides high security against interference
Cable assembly takes place using LSAplus quick connection bars with colour coding on top in accordance to EIA/TIA 568
45° tilted plug assembly

Included in delivery:

• Switch, power supply and instruction manual

Technical Information:

	CS-1004	CS-1008	CS-1016
Monitor VGA connector	1x HD 15pin Female	1x HD 15pin Female	1x HD 15pin Female
Keyboard Connection	1x 6pin Mini DIN Female	1x 6pin Mini DIN Female	1x 6pin Mini DIN Female
Mouse Connection	1x 6pin Mini DIN Female	1x 6pin Mini DIN Female	1x 6pin Mini DIN Female
Audio Connection	2 x 3.5mm Jack	2x 3.5mm Jack	2x 3.5mm Jack
PC Combi Connection	4x DB25 Female	8x D-SUB25 Female	16x D-SUB25 Female
VGA Resolution Max.	1920x1440	1920x1440	1920x1440
Casing	Metal	Metal	Metal
Dimensions (WxDxH)	483x154x44,5mm (1HU)	483x154x44,5mm (1HU)	483x754x89 (2HU)
Power supply	9VDC / 500mA	9VDC / 500mA	9VDC / 800mA
Item No.:	**14.01.3291-3**	**14.01.3295-3**	**14.01.3296-1**

KVM-Switch cable overview (ROLINE-Item Numbers):

Type description	Keyboardcable PS/2	Mousecable PS/2	VGA-cable	Combicable PS/2
CS-124A	11.01.5818-50*	11.01.5818-50*	11.04.5302-20**	11.01.5462-25*
CS-128A				11.01.5495-20***
CS-1004				11.01.5491-20***
CS-1008				11.01.5491-20***
CS-1016				11.01.5491-20***

*1,8m **2m ***3m

ROLINE Surface-Mounting Box Cat. 5e

- The connection boxes are suitable for a transmission rate of 100MBit/s and are fitted with one or two sockets
- Fully screened box in a metal housing; provides high security against interference
- Cable assembly takes place using LSAplus quick connection bars with colour coding on top in accordance to EIA/TIA 568
- 45° tilted plug assembly

ROLINE Surface Mounting Box Cat. 5e, Single	Cat. 5e	ivory	25.16.8381-20
ROLINE Surface Mounting Box Cat. 5e, Double	Cat. 5e	ivory	25.16.8386-20
ROLINE Flush-Mounting Box Cat. 5e, Single	Cat. 5e	ivory	25.16.8481-20
ROLINE Flush Mounting Box Cat. 5e, Double	Cat. 5e	ivory	25.16.8486-20
ROLINE Surface Mounting Box Cat. 5e, Single	Cat. 5e	white	25.16.8382-20
ROLINE Surface Mounting Box Cat. 5e, Double	Cat. 5e	white	25.16.8387-20
ROLINE Flush-Mounting Box Cat. 5e, Single	Cat. 5e	white	25.16.8482-20
ROLINE Flush-Mounting Box Cat. 5e, Double	Cat. 5e	white	25.16.8487-20

ROLINE Cat. 5e 19“ – Patchpanel

- The screened ROLINE Cat. 5e 19“ patch panels are available in 16 or 24 port versions
- The panels comply with the EIA/TIA 568 Cat. 5e TSB40A standard
- The cable connection on the back is implemented via LSAplus quick connection technology with colour coding on top in accordance to EIA/TIA 568A
- Sheet steel housing and cover

ROLINE 19“-Patchpanel 1 HE, 16 Ports, Cat. 5e	26.11.0321-3
ROLINE 19“-Patchpanel 1 HE, 16 Ports, Cat. 5e	26.11.0329-3

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Patch cables

ROLINE Patch Cables Cat. 5e

Network connection cables for the structured building cabling for applications starting from 100MHz to 250MHz. (Cat. 5e)
Flexible cable due to its moulded kink protection. Prepared and ready to use cables with on both ends RJ45 connectors

UTP- Patch cable Cat. 5e

Specs:
8 wires AWG-24,
Flexible connection cable
Unshielded cable

Contact Layout:
1:1 in accordance with EIA/TIA 568, 8 wires

Colours:
red, yellow, green, blue, black
Standard colour: grey

FTP- Patch cable Cat. 5e

Specs:
8 wires AWG-26
Flexible connection cable
Shielded cable with aluminium laminated foil

Contact Layout:
1:1 in accordance with EIA/TIA 568, 8 wires

Colours:
red, yellow, green, blue, black
Standard colour: grey

S/FTP- Patch cable Cat. 5e

Specs:
8 wires AWG-26 lacing
Flexible connection cable
Shielded cable in aluminium laminated foil with additional copper braid

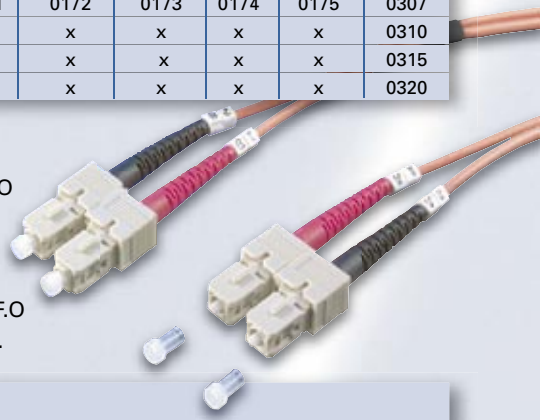
Contact Layout:
1:1 in accordance with EIA/TIA 568, 8 wires

Colours:
grey only

All patch cables Item No. start with 21.15.xxxx-PU see below a part of the range that we can offer. Ask for our Computer Accessories catalogue!

Patch cables

Cat. 5e Length	UTP Grey	UTP Red	UTP Yellow	UTP Green	UTP Blue	UTP Black	FTP Grey	FTP Red	FTP Yellow	FTP Green	FTP Blue	FTP Black	S/FTP Grey
0,5m	21.15.0500-100	0521	0522	0523	0524	0525	0100	0181	0182	0183	0184	0185	0300
1,0m	21.15.0501-100	0531	0532	0533	0534	0535	0101	0131	0132	0133	0134	0134	0301
2,0m	21.15.0502-100	0541	0542	0543	0544	0545	0102	0141	0142	0143	0144	0145	0302
3,0m	21.15.0503-50	0551	0552	0553	0554	0555	0103	0152	0152	0153	0154	0155	0303
5,0m	21.15.0505-50	0561	0562	0563	0564	0565	0105	0161	0162	0163	0164	0165	0305
7,0m	21.15.0507-50	0571	0572	0573	0574	0575	0107	0171	0172	0173	0174	0175	0307
10,0m	21.15.0510-40	x	x	x	x	x	0110	x	x	x	x	x	0310
15,0m	21.15.0515-30	x	x	x	x	x	0115	x	x	x	x	x	0315
20,0m	21.15.0519-20	x	x	x	x	x	0119	x	x	x	x	x	0320



ROLINE Fiber-Optic patch cables

F.O Patch cable in approved ROLINE quality for a cost effective F.O solution.The quality of the connectors and fibres and an optimal assembly procedure lead to good characteristics in relation with insertion loss and reflection. All cables are delivered as Duplex-cable with Fibre types of 50/125 m or 62.5/125 m. Three different F.O connector types (ST, SC and LC) are available in any combination.

LWL Patch cables

50/125µm				62,5/125µm			50/125µm				62,5µm/125µm		
Length	ST/ST	SC/SC	ST/SC	ST/ST	SC/SC	ST/SC	Length	LC/LC	LC/ST	LC/SC	LC/LC	LC/ST	LC/SC
1,0m	21.15.9701-40	9901	9801	9401	9301	9201	1,0m	21.15.9751-20	9951	9851	9251	9451	9351
2,0m	21.15.9702-40	9902	9802	9402	9302	9202	2,0m	21.15.9752-20	9952	9852	9252	9452	9352
3,0m	21.15.9703-40	9903	9803	9403	9303	9203	3,0m	21.15.9753-20	9953	9853	9253	9453	9353
5,0m	21.15.9705-20	9905	9805	9405	9305	9205	5,0m	21.15.9755-10	9955	9855	9255	9455	9355
7,0m	21.15.9707-20	9907	9807	9407	9307	9207	7,0m	21.15.9757-10	9957	9857	9257	9457	9357
10,0m	21.15.9710-10	9910	9811	9410	9309	9209	10,0m	21.15.9760-5	9960	9860	9260	9460	9360

PersonalSecure

The ROLINE PersonalSecure UPS is ideal as a cost effective power protection solution for non-critical workstations. Protects against: power failure, power sag, power surge

Technology:	Off-Line
Range:	500-800 VA
Load:	230 VAC-50Hz

Typical usage:

- Stand alone PC
- Workstation
- POS

Product Features:

- Compact, low sound and user friendly
- Two UPS outlets
- One filtered Outlet
- ABM (Advanced Battery Management)
- Shutdown software included

Technical Specifications ROLINE PersonalSecure

Model	**RU-PL 500**	**RU-PL 800**
Capacity	500 VA	800 VA
Rating	500 VA/ 300 W	800 VA / 480 W
Dimensions (WxDxH)	70x195x297mm	70x195x297mm
Weight	3,6 kg	3,8 kg
UPS Input	1 x IEC 320 C14	
UPS Output	UPs with Power protection 2x IEC 320 C13 Power protection 1x IEC 320 C13	
Back up Time	5 Min.	3 Min.
Operating data		
Input voltage	230V ± 25%	
Input frequency	50 or 60 Hz ± 10% (auto sensing)	
Output capacity	230V ± 5% on Battery usage	
Output regulation	230V ± 25%	
Overload capacity	130% 3 seconds	
Scope of operation	95% Normal usage	
User interface		
LED display	UPS On, overload, battery use, battery alarm	
Interface	Standard RS 232	
Environmental		
Operating temperature	0° C up to 40° C (recommended 20 – 25°C)	
Storage condition	Recommended 0 – 25° C	
Audible noise	< 40 dBA at 1m Distance	
Certification		
Markings	CE, UL	
Safety	EN 50091-1-1	
EMC	EN 50091-1-2, EN 6100-3-2	
Item No.:	**19.40.3505-E**	**19.40.3508-E**

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LineSecure

LineSecure UPSs work with the “buck & boost” line interactive technology; used when reliable protection against strong voltage fluctuations is essential. Protect against: power failure, power sag, power surge, under voltage, over voltage

Technology: Line Interactive
Range: 800-2500 VA
Load: 230 VAC-50Hz

Technical usage:

- Server
- Server-Farms
- IT-Equipment
- Industrial Use

Product features:

- Compact, quiet, user friendly
- Desktop and 10“ RM models
- Short circuit and overload protection
- AVR (Automatic Voltage Regulation)
- ABM (Automatic Battery Management) increases battery lief up to 50%
- Shutdown software inclusive License for 1 server

Technical Specifications – ROLINE LineSecure

Model	RU-LS600	RU-LS800	RU-LS1000	RS-LS1500	LS-1000R	LS-1500R
Rating	600 VA	800 VA	100 VA	1500 VA	1000 VA	1500 VA
Capacity Va/Watt	600/420	800/560	1000/670	1500/960	1000/670	1500/960
Design	Desktop	Desktop	Desktop	Desktop	19” Rackmount	19” Rackmount
Dimensions (WxDxH)	140 x 436 x 210				438 x 380 x 84	
Weight	14 kg	14 kg	15 kg	29 kg	20 kg	25 kg
UPS Input	1x IEC 320 C14					
Output Connection	4x IEC 320 C13			6x IEC 320 C13	4x IEC 320 C13	6x IEC 320 C13
Backup Time 100/50%	9/14 Min.	5/8 Min.	4/7 Min.	3/6 Min.	3/6 Min.	3/6 Min.
Operating data						
AC Input	230V ± 25%					
Input Frequency	50 or 60 Hz ± 10% (Auto Sensing)					
Output power	Sinus curveform 230V +/- 5% on battery use					
Output regulation	AVR regulates power at 15% without battery use					
Overload capacity	Automatic shutdown at 125% overload within 5 Seconds					
Efficiency	95%					
User interface						
LED-Display	Battery, voltage level, over and under load, battery change, power failure					
Interface	Standard RS 232					
Environmental						
Operating temperature	0° C up to 40° C (recommended 20° – 25°C)					
Storage condition	Recommended 0° – 25° C					
Audible noise	< 45 dBA at 1m Distance					
Certification						
Markings	TUV-GS, CE, UL					
Safety	EN 50091-1-1					
EMC	EN 50091-1-2, EN 6100-3-2					
Item No.:	**19.40.1106-E**	**19.40.1108-E**	**19.40.1110-E**	**19.40.1115-E**	**19.40.1111-E**	**19.40.1116-E**

ProSecure

The ROLINE ProSecure Series - for optimum power protection - is a truly state of the art on-line double conversion UPS, ideal for all essential computer systems and servers. Protects against: power failure, power sag, power surge, under voltage, over voltage, switch transient, line noise, frequency variation, harmonic distortion.

Technology:	On-Line
Range:	700-3000 VA
Load:	230 VAC-50Hz
Backup Time:	5-9 Min.

Typical usage:

- Server
- Server Farms
- IT equipment
- Industrial use

Product features:

- Compact, quiet, user friendly
- ABM (Automatic Battery Management)
- LED display
- RS-232 communication
- Shutdown software inclusive licence for 1 server
- SNMP capability

Technical specifications – ROLINE ProSecure

Model	**ProSecure700**	**ProSecure1000**	**ProSecure1500**	**ProSecure2000**	**ProSecure3000**
19"-Rackmount	**–**	**ProSecure1000R**	**–**	**ProSecure2000R**	**ProSecure3000R**
Load Va/W	700VA / 490W	1000VA / 700W	1500VA/1050W	2000VA/1400W	3000VA/2100W
Dimension, tower model	145x400x220 mm	145x400x220 mm	145x400x220 mm	192x460x385	192x460x385
Dimension, 19" rack model	–	438x508x130 – 3HE	–	438x508x130 – 3HE	
Weight, tower model	12.5 Kg	15 Kg	18 Kg	32 Kg	37 Kg
Weight, 19" rack model	–	20 Kg	–	28 Kg	32 Kg
UPS input	1 x IEC 320 C14				
UPS output	4 x IEC 320 C13		6 x IEC 320 C13		
Backup time 100% / 50%	6 / 15 Min.	8 / 22 Min.	6 / 15 Min.	9 / 25 Min.	7 / 20 Min.
Operating Specs:					
AC input	220/230/240 VAC				
Input frequency	50/60 Hz (Auto sensing)				
Power output	220/230/240 VAC ± 2% selectable				
Overload capacity	Auto transfer on bypass				
Efficiency	> 85%				
User Interface					
LED-Display	Status – power in, UPS out, bypass, alarm, load and battery capacity				
Interface	RS232 communications port and opto coupler relay				
Environment					
Operative temperature	0° degrees up to 40 degrees (recommended 20 - 25 degrees)				
Warehousing	Recommended 0 – 25 degrees				
Noise level	< 40 dBA at 1m distance				
Certification					
Marketing	TUV-GS, CE (PAN European approved), UL				
Security	EN 50091-1-1, UL 1778, CE				
EMC	EN 50091-1-2, EN 6100-3-2, IEC 61000-4, FCC Part 15, CISPR 22				
Item No., tower model	**19.40.1026-E**	**19.40.1006-E**	**19.40.1016-E**	**19.40.1021-E**	**19.40.1031-E**
Item No., 19" rack mode	**–**	**19.40.1007-E**	**–**	**19.40.1022-E**	**19.40.1032-E**

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